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(54) **OBJECT REFINEMENT USING MANY DATA SETS**

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(57) **ABSTRACT**

Digitizing objects in a picture is discussed herein. A user presents the object to a camera, which captures the image comprising color and depth data for the front and back of the object. The object is recognized and digitized using color and depth data of the image. The user's client queries a server managing images uploaded by other users for virtual renditions of the object, as recognized in the other images. The virtual renditions from the other images are merged with the digitized version of the object in the image captured by the user to create a composite rendition of the object.